

Title (en)
GUIDANCE SYSTEMS AND METHODS

Title (de)
FÜHRUNGSSYSTEME UND -VERFAHREN

Title (fr)
SYSTÈMES ET PROCÉDÉS DE GUIDAGE

Publication
EP 4114165 A4 20240403 (EN)

Application
EP 21764302 A 20210302

Priority
• US 202062984256 P 20200302
• US 2021070216 W 20210302

Abstract (en)
[origin: US2021267115A1] A guidance assembly for an agricultural vehicle includes a pathing system configured to provide an array of swaths. The guidance assembly includes a composite guidance system in communication with an automated driving interface and the pathing system. The composite guidance system includes a turn guidance system configured to guide the agricultural vehicle along at least one turn segment extending between a first zone swath and a transverse second zone swath, and a swath guidance system configured to guide the agricultural vehicle along the first zone swath and the transverse second zone swath. The system includes a comparator configured to compare the agricultural vehicle position with swath departure and arrival locations. An interswath turning element automatically toggles the turn and swath guidance systems between activated and paused configurations according to the compared agricultural vehicle position and the swath departure and arrival locations.

IPC 8 full level
G05D 1/00 (2024.01); **A01B 69/04** (2006.01)

CPC (source: EP US)
A01B 69/008 (2013.01 - EP US); **G05D 1/0219** (2024.01 - EP); **G05D 1/0248** (2024.01 - US); **G05D 1/0257** (2024.01 - US)

Citation (search report)
• [XY] US 2008249692 A1 20081009 - DIX PETER J [US]
• [Y] US 2015331423 A1 20151119 - VOLGER THEO [DE], et al
• [Y] US 2017144702 A1 20170525 - DANG TRI M [AU], et al
• See also references of WO 2021178998A1

Designated contracting state (EPC)
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US 2021267115 A1 20210902; EP 4114165 A1 20230111; EP 4114165 A4 20240403; WO 2021178998 A1 20210910

DOCDB simple family (application)
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